

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 July 2005 (28.07.2005)

PCT

(10) International Publication Number
WO 2005/069011 A1

(51) International Patent Classification⁷: **G01N 33/68**,
C07K 14/81, 14/195, 14/44, 14/46, C12Q 1/37

(21) International Application Number:
PCT/GB2005/000154

(22) International Filing Date: 17 January 2005 (17.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/536,860 16 January 2004 (16.01.2004) US

(71) Applicant (for all designated States except US): **MEDICAL RESEARCH COUNCIL** [GB/GB]; 20 Park Crescent, London Greater London W1B 1AL (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **ANSELL, Keith Hugh** [GB/GB]; MRC Technology, 1-3 Burtonhole Lane, Mill Hill, London Greater London NW7 1AD (GB).

(74) Agents: **SUTCLIFFE, Nicholas et al.**; Mewburn Ellis LLP, York House, 23 Kingsway, London Greater London WC2B 6HP (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/069011 A1

(54) Title: METHODS AND MEANS OF SCREENING FOR RHOMBOID ACTIVITY

(57) Abstract: This invention relates to methods of screening for rhomboid modulating compounds using a substrate polypeptide has a core domain comprising a rhomboid cleavable TMD sequence linked to an upstream tag sequence. The core domain sequence is not susceptible to cleavage by non-rhomboid proteases so products of rhomboid dependent proteolysis products may be detected by determining the presence of the tag sequence. Rhomboid modulating compounds identified by the present methods may be useful in a range of therapeutic applications.